

series seen and it is believed that a name for the race will be found of service. From all Californian coastal forms seen *oria* differs in its darker and browner coloring, weaker and more distinct pilosity, and polished surface.

A series taken by Mr. Smith in the vicinity of Riverton, May 21, 1916 (Cat. No. 3734) and another collected by him near Camp Creek, 3 miles east of Pleasant Valley, Eldorado County, July 11, 1926, average considerably smaller than the material described but otherwise seem essentially similar.

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### TEXAS SHELLS

BY E. G. VANATTA

The following species were picked from two samples of river drift collected by Doctor Julia Gardner. Specimens are in the collection of the Academy of Natural Sciences of Philadelphia.

#### FRIO RIVER ONE MILE ABOVE FRIO, FRIO CO., TEXAS

<i>Helicina orbiculata tropica</i>	<i>Pupoides marginatus</i> (Say)
Pfr.	<i>Gastrocopta contracta</i> (Say)
<i>Polygyra texasiana</i> (Moric.)	<i>Gastrocopta pentodon</i> (Say)
<i>Thysanophora hornii</i> (Gabb)	<i>Gastrocopta procera</i> (Gld.)
<i>Bulimulus dealbatus</i>	<i>G. pellucida hordeacella</i>
<i>mooreanus</i> (Pfr.)	(Pils.)
<i>Bulimulus alternatus mariae</i>	<i>Strobilops texasiana</i> P. & F.
(Alb.)	<i>Succinea luteola</i> Gld.
<i>Holospira roemeri</i> (Pfr.)	<i>Pseudosuccinea columella</i>
<i>Retinella indentata</i>	(Say).
<i>paucilirata</i> (Mrl.)	<i>Helisoma trivolvis lentum</i>
<i>Hawaia minuscula</i> (Binn.)	(Say)
<i>Hawaia m. alachuana</i> (Dall)	<i>Tropicorbis liebmanni</i> (Dkr.)
<i>Helicodiscus singleyanus</i>	<i>Planorbula obstructa</i> (Mrlt.)
(Pils.)	<i>Carychium exiguum</i> (Say)
<i>Helicodiscus nummus</i> (Van.)	



RIO GRANDE, MAVERICK CO., ABOUT EIGHT MILES ABOVE THE  
WEBB CO. LINE

<i>Polygyra texasiana</i> (Moric.)	<i>Pupoides marginatus</i> (Say)
<i>P. t. texasensis</i> Pils.	<i>Gastrocopta contracta</i> (Say)
<i>Thysanophora hornii</i> (Gabb)	<i>G. procera</i> (Gld.)
<i>Holospira mesolia</i> Pils.	<i>G. cristata</i> (P. & V.)
<i>Holospira roemeri</i> (Pfr.)	<i>G. pellucida hordeacella</i>
<i>Retinella indentata</i>	(Pils.)
<i>paucilirata</i> (Mrl.)	<i>G. pentodon</i> (Say)
<i>Hawaiiia minuscula</i> (Binn.)	<i>Gyraulus carus</i> (P. & F.)
<i>H. m. alachuana</i> (Dall)	<i>Drepanotrema cultratum</i>
<i>Helicodiscus singleyanus</i>	<i>labrosum</i> Pils.
(Pils.)	<i>Planorbula obstructa</i> (Mrlt.)
<i>Helicodiscus nummus</i> (Van.)	

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A NEW SPECIES OF FLORIDA UNIO

BY BERLIN HART WRIGHT

UNIO (ELLIPTIO) SANCTORUMJOHANUM, sp. nov. Plate 1.

Shell uniomorphic, reddish, polished, smooth but with bluntly rounded growth ridges. Disc all covered with bright dark green rays collected in ribbon-like bands, almost obscuring the basic epidermal color, especially in the younger, translucent individuals. Epidermis extremely glaucous throughout and glabrous. Form inequilateral, oval, slightly but distinctly biangulate behind and posterior or umbonal ridge well defined but not sharp, and beak sculpture prominently and irregularly sinuate and deeply corrugate. Dorsal margin slightly arched, ventral and posterior margins gracefully rounded, and blunt in front. Cardinal teeth oblique, pointed, finely corrugate, double in left and single in right valve as are also the arched laterals which are well separated from the cardinals and are beautifully and finely sculptured. Pallial impressions distinctly marked and very regular. Posterior cicatrix narrow and smooth posteriorly, and deep auxiliary cicatrix. Anterior cicatrix shallow, poorly defined and smooth. Umbonal cavity fairly deep with four cicatrices in a row at its roof. Nacre brilliantly iridescent with bright coppery hues throughout.



Vanatta, E. G. 1933. "Texas shells." *The Nautilus* 47, 16–17.

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